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2.

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1. Institut zoologii i parazitologii im. akad. Ye.N.Pavlovskogo, AN Tadzhikskoy SSR. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR M.N.Narzikulovym. (Erythrocytes) (Ticks)

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TSVILENEVA, V.A.

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1. Institut zoologii i parazitologii imeni akademika Pavlovskogo AN Tadzhikskoy SSR.

TSVILENEVA, V.A., MASHANSKIY, V.F.

Structure of the outicle in some ixedid ticks. Izv. AN SSSR. Ser. biol. no.5:787-792 S-0 165. (MIRA 18:9)

l. Institut zoologii i paresitologii AN Tadzhikakov SSR, Dushanbe.

TSVILENENA, V.A. (Dushanbe, 24, ul. Popova, 3, kv. 17)

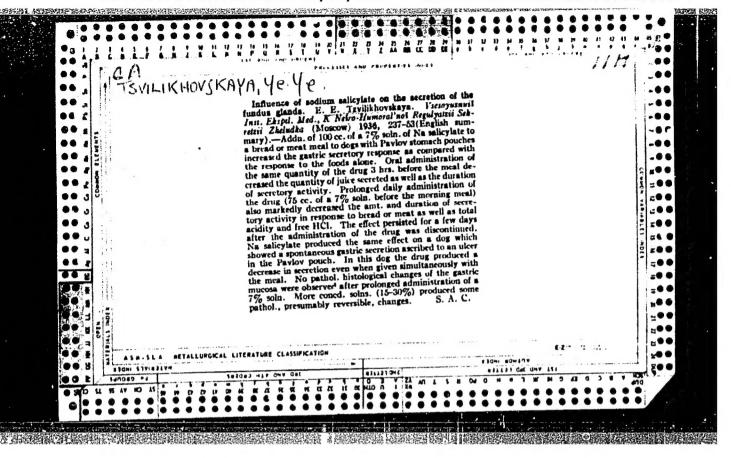
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TSVILEMEVA, V.A. (Stalinabad, 24, Subtropicheskaya ul., d.3,kv.17)

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1. Otdel parazitologii (zav. - kand.veterinarnykh nauk Ye.A.Muratov) Instituta zoologii i parazitologii AN Tadzhikskoy SSR. (TICKS) (HEMOLYMPH)



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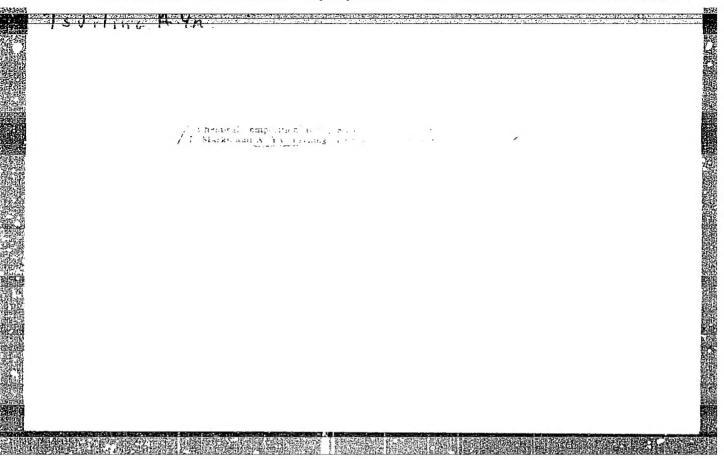
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1. Professor for Volin, Doctor Medical Sciences for Tsvilikhov-skaya and Mayat, and Candidate Medical Sciences for Beslekoyev.

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Reports the excellent seable to obtain from the described in "Radio" N	ervice which station UA3GI was use of a vertical antenna, o 7, 1947.	
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l. Kafedra biokhimii i mikrobiologii Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.

(Tomato juice) (Grape juice) (Melanoidin)

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(Food, Canned) (Lead-- Analysis)

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Kons.i ov.prom. 17 no.6:39-41 Je '62. (MIRA 15:5)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.

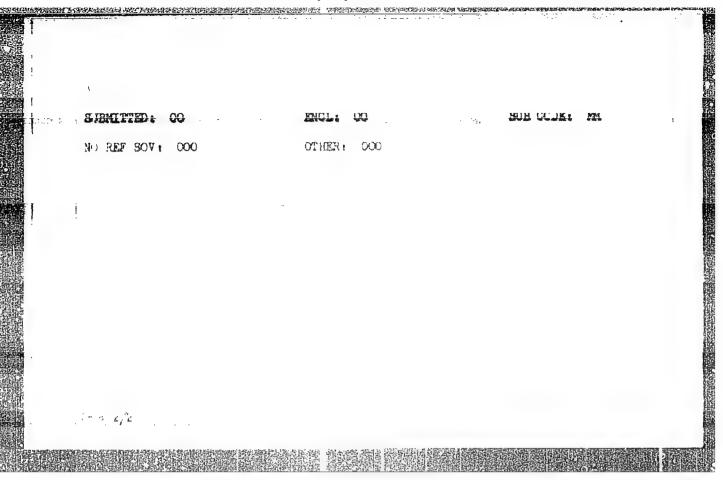
(Tomato products-Testing)

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YMVGNN, A.D.; BUMDHEV, A.I., dotsent, kand.voyenno-morekikh
nsuk, kepiten 1 range, red.; KRUPNHHIKOVA, I.A., red.;
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(Navel art and science--Dictionaries)

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TITLE: A method for et	oning molytalenum-ba	eed as soys	' ,
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ABSTRACT: Etoning of m	olybdenum and molyt		with a 10% aquecus
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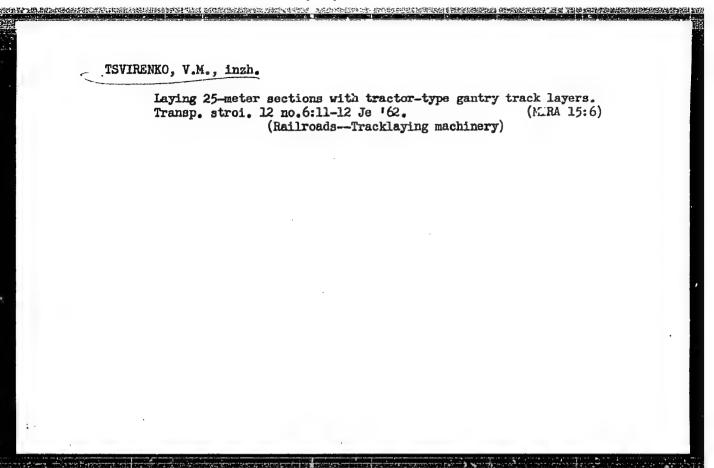
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immun. 41 no.12:119 D '64.

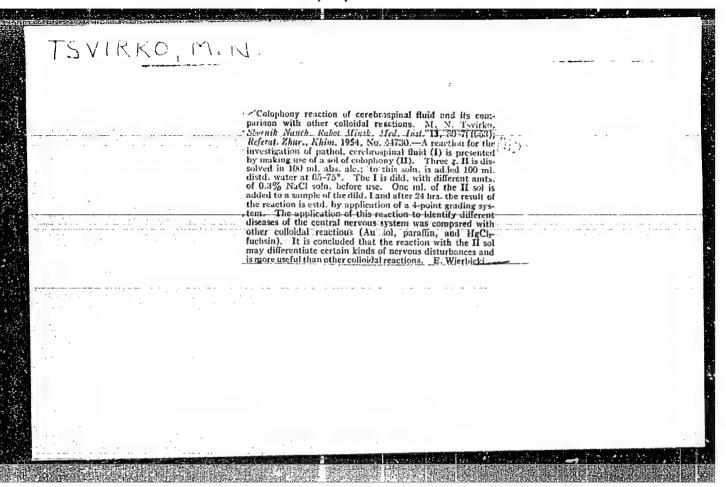
1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

13YIKKO, USSR/ Engineering = Drawing dies Card 1/1 Pub. 103 - 3/22* Tsvirko, G. L., and Sheleshnev, A. A. Title * Working of splined cylinders Periodical # Stan. i instr. 6, 8-11, June 1955 : Methods of drawing external splines on spinning machine shafts by means of Abstract drawing the shaft through a special die made of 3Kh12M (Kh12T; Kh12F1) construction steel. The die consists of two parts; a cylinder, and a pressfit (in hot state) ring with internal splines. The drawing of splines can be performed on vertical or horizontal presses and on drawing lathes, at pressures not exceeding 20 tons, and working feeds of from 550-600 mm. Drawings. Institution

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1. Iz kliniki infektsionnykh bolezney (zaveduyushchiy - prof. A.N.Filippovich) Minskogo meditsinskogo instituta.
(SAIMONELIA TYPHIMURIUM) (FOOD POISONING)

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SEVER'YANOV, N.N., kand. tekhm. nauk, red.; BERLIN, A.Ye.,
retsenzent; VOYTSEKHOVSKIY, G.A., retsenzent;
DAVYDOVA, Ye.A., retsenzent; ZIL'BERSHTEM, Ya.Yu.,
retsenzent; KIRICHINSKIY, N.R., retsenzent; KLEPIKOV,
L.N., retsenzent; KUBYNIN, A.Ye., retsenzent; LEBEDEV,
V.V., retsenzent; MOROZOV, V.P., retsenzent; MOSKVIN,
V.B., retsenzent; MUSARSKIY, I.S., retsenzent; PODERNI,
Yu.S., retsenzent; SALIKOV, I.A., retsenzent; SUSHCHENKO,
A.A., retsenzent; TRET'YAKOV, K.M., retsenzent; UL'YANOV,
V.P., retsenzent; TSVIRKO, P.P., retsenzent; TSOY, A.G.,
retsenzent; CHEL'TSOV, M.I., retsenzent; SHISHCHITS, G.N.,
retsenzent; DIDKOVSKIY, D.Z., otv. red.

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TSVIRKO, Pavel Pavlovich. Prinimal uchastiye LIFMAN,
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[Open pit hydraulic mining operations] Otkrytye gornye raboty gidravlicheskim sposobom. Moskva, Nedra, 1965. 226 p.

(MIRA 18:10)

3(5)

SOV/11-59-9-10/18

AUTHOR:

Tsvirko, V.F.

TITLE:

Kenoliths in Dioritic Forphyrite Dykes of Eastern

Verkhoyan'ye

PERIODICAL:

Izventiya Akademii mauk SSSR, Seriya geologi-

cheskaya, 1959, Nr 9, pp 91-93 (USSR)

ABSTRACT:

The author describes dioritic porphyrite dykes which were found in the Dyba polymetallic zone, on the territory of the South-Verkhoyansk synclinorium. These dykes contain xenoliths of effusive and metamorphic rocks not found in the region. The author explored the region and made a petrographic study of these xenoliths together with Ye.N. Rodionova and S.V. Domokhotov. In one place the dioritic porphyrites intersect a 18-20 m thick dyke of granite-porphyres. As a result of a contacting metamorphosis, the granite-porphyrites acquired an aplitic and microgranitic structure and the dark colored minerals of pheno-

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Xenoliths in Dioritic Porphyrite Dykes of Eastern Verkhoyan'ye

crysts were chloritized and muscovitized. Doritic porphyrites form a massive greenish-grey rock, its structure conditioned by the presence of plagioclase and complex pseudomorphic phenocysts among the porphyric secretions of dark colored components. As said, the characteristic feature of these dykes is the occurrence of xenoliths of acidic, basic and hybrid effusive rocks. Their detailed description is given. According to the author, these xenoliths give an indirect indication of the structure of the ancient foundation of the South-Verkhoyansk synclinorium.

ASSOCIATION:

Aldanskoye rayonnoye geologorazvedochnoye upravleniye, pos. Khandycha, Yakutskaya ASSR (the Aldan rayon geologo-exploratory Directorate, village Khandycha, Yakutskaya ASSR)

SUBMITTED: Card 2/2

12 July 1958

TSVIRKO, V.F.

Xenoliths in dikes and dikelike bodies of diroite-porphyrites and granodiroite-porphyries. Geol. i goefiz. no.11:102-105 '62. (MIRA 16:3)

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(Nenoliths)

(Dikes (Geology))

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Letopis' Zhurnal'nykh Statey, Vol. 48, Noskva, 1949

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S/056/60/038/005/055/057/XX B006/B070

24.3200 AUTHOR:

TITLE:

Tsvirko, Yu. A.

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A Relation Between the Structure of Exciton Bands and the

Natural Optical Activity of Crystals

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960. Vol. 38, No. 5, pp. 1615 - 1619

TEXT: S. I. Pekar showed (Ref. 1) that if the space dispersion of the electromagnetic wave is considered in a crystal in which excitons occur, a new solution of the Maxwell equations exists which differs essentially from the solutions so far known in the region of light frequencies in the neighborhood of the exciton absorption frequency. For the exciton energy $\xi(\vec{k})$ in the vicinity of $\vec{k} = 0$, Pekar proposed the following expansion:

 $\vec{E}(\vec{k}) = \vec{E}_0 + \frac{k^2}{2} \sum_{ps} M_{ps}^{-1} k_p k_s + \dots$ When an electromagnetic wave is propagated along the principal axis of a uniaxial crystal, only those exciton states make a contribution to the specific polarization which are in the neighborhood of a degenerate band. It is shown in the present paper that Card 1/3

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A Relation Between the Structure of Exciton Bands and the Natural Optical Activity of Crystals

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the degenerate energy surfaces for crystals with the symmetry groups principal optic axis. From this it follows that also terms linear in k occur in $\mathcal{E}(\vec{k})$. A consideration of these terms for the intersection of the $\mathfrak{E}(\vec{k})$ surface leads to a form of relationship between specific polarization and electric field different from Pekar's form, and resulting in a rotation of the plane of polarization of light in the crystal. By exciton an arbitrary excited state in the crystal is understood whose wave function may be characterized by a continuous quantum number \vec{k} and which transforms under a symmetry operation as a single-valued irreducible representation of a space group. The dimensionless wave vector \vec{k} + (0.0,k) with $-\pi \le k \le \pi$, is used for simplicity. First, the structure of a doubly degenerate exciton band of a uniaxial crystal in the direction of the principal optic axis is studicd; then the propagation of a plane electromagnetic wave in a uniaxial dielectric crystal in the same direction is considered. The formula obtained for the rotation of the plane of polarization of light differs from the analogous formula of V. M. Agranovich and A. A. Rukhadze (Ref. 8)

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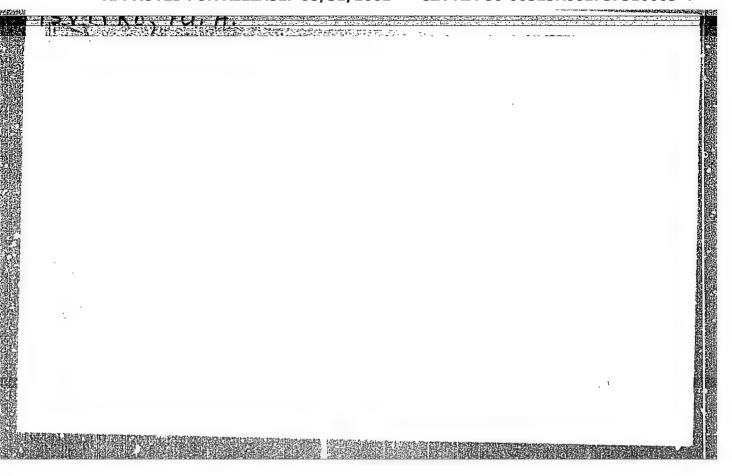
A Relation Between the Structure of Exciton Bands and the Natural Optical Activity of Crystals S/056/60/038/005/055/057/XX B006/B070

obtained semiphenomenologically, and also from Chandrasekhar's empirical formula (Ref. 9). The origin of these differences is discussed, and it is pointed out that Agranovich in Ref. 10 has derived a relation without considering the intersection of the exciton bands, which has the same form. Finally, the determination of the refractive indices of the right and left circularly polarized waves is dealt with. V. L. Ginzburg has derived in a phenomenological way a function which agrees qualitatively with the function $n(\omega)$ obtained by the author. There are 1 figure and 11 references: 6 Soviet, 1 Indian, 3 US, and 1 German.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiyev State University)

SUBMITTED: December 18, 1958 (initially) and December 22, 1959 (after revision)

Card 3/3



4.7100 (1136,1142,1160) 9.3700 (1057, 1163, s/181/61/003/005/013/042 B101/B214

AUTHORS:

Tsvirko, Yu. A., and Tolmazina, M. A.

TITLE:

Boundary conditions for electromagnetic waves on the surface of optically active crystals

PERIODICAL: Fizika tverdogo tela, v. 3, no. 5, 1961, 1393 - 1399

TEXT: A system of equations was set up by Professor S. I. Pekar (ZhETF, 33, 1022, 1957; ibid., 34, 1176, 1958) for the calculation of the amplitudes of normal and anomalous electromagnetic waves in crystals. Starting from these equations the present paper investigates the propagation of electromagnetic waves along the principal optic axis of a uniaxial optically active crystal and deals with the determination of the additional boundary conditions on the assumption that the excitation of the crystal is due to Frenkel excitons. The crystal possesses a D(3) symmetry with

1 (chosen as the z-axis). The wave a screw axis of the 4th order 04.00

functions of the excited states are given by:

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Boundary conditions for ...

 $\Phi_{\mu}^{f}(k) = (4N)^{-l_{h}} \sum_{k} \exp ikm B_{k}^{n} \chi_{m}^{f}.$

k is the quasi-momentum of the exciton; m the number of elementary cell; the wave function of the α the number of the molecule in the cell;/ $\frac{f}{m}$ crystal whose molecule with the number $m\alpha$ is in the fth excitation; μ the number of irreducible representations, and N the number of the cells. For the stationary state of a bounded crystal linear combinations of Eq. (1) are taken where $m_3 = 1$, $\alpha = 1$ is chosen as the boundary surface:

 $\Psi'_{k}(k) = (2)^{-1/2} [\Phi'_{k}(k) - \Phi'_{k}(-k)], \qquad \Psi'_{k}(k) = -\Psi'_{k}(-k).$

The part of the dipole moment caused by the virtual transition in the exciton state the equation $\vec{P}_1(\vec{r}) = \sum_k c_k \vec{P}_{0k}(1)(\vec{r}) + \text{complex resistance (4)}$

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Boundary conditions for ...

holds, where

$$\mathbf{P}_{0t}^{(1)}(\mathbf{r}) = \int \Psi^{0} \mathbf{\hat{P}}(\mathbf{r}) \Psi \{(k) d\Omega. \tag{A}$$

 $\overrightarrow{P}_1(z)$ is determined by $\overrightarrow{P}_{0k}^{(1)}(0)$ in the neighborhood of the crystal surface z=0. This matrix element is:

 $P_{0k}^{(1)}(0) = \frac{1}{\Delta} \sum_{m, \alpha} \sin \frac{km - (2\pi + k)(4 - a)}{4} P_{m, \alpha}$ (5)

Here, $\overrightarrow{P}_{m,\alpha} = \int_{\mathbb{T}^0}^{\mathbb{T}^0} \overrightarrow{P}_{m,\alpha}^{\uparrow} dx$; a is the volume of the region which is essentially smaller than the wavelength $\lambda = 2\pi/k$ in the z direction. A summatially smaller than the wavelength $\lambda = 2\pi/k$ in the z direction. A summation is made over the boundary of this region. Considering the symmetry of the wave function as well as of $(C_4)^2 P_x = -P_x$, and $(C_4)^2 P_y = -P_y$ one obtains: $\overrightarrow{P}_{m,3} = -\overrightarrow{P}_{m,1}$, and $\overrightarrow{P}_{m,4} = -\overrightarrow{P}_{m,2}$. Introducing this in Eq. (5) when the x-axis is directed along the dipole moment of the molecule with $\alpha = 4$, one obtains: $P_{0kx}^{(1)}(0) = 0$, and $P_{0ky}^{(1)}(0) \neq 0$. For the second boundcard 3/8

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Boundary conditions for ...

ary with z=1; $m_3=6>>1$; $\alpha=3$ only $P_{0kx}^{(1)}(1)=0$. Therefore, the additional boundary conditions for the crystal surface are obtained as $P_{1x}(0)=0$, and $P_{1x}(1)=0$ (6). The differential equations connecting $P_{1x}(0)=0$, with $E_1(z,t)$ are $(ik\partial/\partial t-\xi_0+(i\partial\xi/\partial k)(\partial/\partial z)P_{\chi}(z,t)$ (i $k\partial/\partial t-\xi_0-(i\partial\xi/\partial k)(\partial/\partial z)P_{\chi}(z,t)=(ia/\omega_0)E_{\chi}(z,t)$; (i $k\partial/\partial t-\xi_0-(i\partial\xi/\partial k)(\partial/\partial z)P_{\chi}(z,t)=(ia/\omega_0)E_{\chi}(z,t)$) and $P_{\chi}(z,t)$ are the right and the left circularly polarized waves. In the absence of the absorption of light in a crystal plate one has

Vplate $V_{plate} = (4\pi i \omega_0 \omega/a)(3E/3k) \left(|P_E(1)|^2 - |P_E(1)|^2 - |P_E(0)|^2 + P_E(0)|^2 \right) = 0$. Hence the following boundary conditions are obtained: $P_E(0) = P_E(0) \exp(i\sigma_0)$, $P_E(1) = P_E(1) \exp(i\sigma_1)$ for $\sigma = constant$. When an electromagnetic wave of amplitude A is incident from vacuum to the boundary surface z = 0 of a plane parallel plate there occur in the region z < 0 reflected waves R and C ard 4/8

Boundary condit	long for	S/181/ B101/1	/61/003/005/013/04 B214	2
•	>1 the waves D tran	smitted through tate. The boundar	he plate. Six tra y conditions are:	ns -
•	$A_{\varepsilon} - R$	$R_{\xi} = E_{\xi}^{(1)} + E_{\xi}^{(2)} + E_{\xi},$ $\xi = n_{1}E_{\xi}^{(1)} + n_{3}E_{\xi}^{(2)} + nE_{\xi}$ $R_{\eta} = E_{\eta}^{(1)} + E_{\eta}^{(2)} + E_{\eta},$,	
	$A_{\eta}-R_{\eta}$	$= -n_1 E_{\eta}^{(1)} - n_2 E_{\eta}^{(2)} - n_3 E_{\eta}^{(2)} - n_4 E_{\eta}^{(3)} + E_{\xi} e^{ikl} = D_{\xi} e^{ikl}$		
		$n_{i}E_{i}^{(2)}e^{ik_{i}l} + nE_{i}e^{ikl} = D$ $E_{i}^{(2)}e^{-ik_{i}l} + E_{i}e^{-ikl} = D$		$\chi_{\scriptscriptstyle i}$
	$n_1 E_{\eta}^{(1)} e^{-ik_1 l} + n_{\eta}$	$E_{\eta}^{(1)}e^{-k_{1}t} + nE_{\eta}e^{-tkt} = -$	$-D_{\gamma}e^{i\frac{\omega}{\epsilon}t}$.	The second of th
Card 5/8			•	# 1

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Boundary conditions for ...

where $n_i = n_i$ is the refractive index of the wave $E_i^{(1)}$, etc. Further, $n_i^{(1)} = -n_i^{(1)}$, $n_i^{(2)} = -n_i^{(2)}$, $n_i = -n_i$; $k_i = n_i \omega/c$. The refractive indices without numerical index are real in the neighborhood of the exciton resonance frequency ω_0 . The additional boundary conditions are:

$$\begin{cases}
(n_1^2 - \epsilon')(E_{\xi}^{(1)} + E_{\eta}^{(1)}) + (n_2^2 - \epsilon')(E_{\xi}^{(2)} + E_{\eta}^{(2)}) + (n^2 - \epsilon')(E_{\xi} + E_{\eta}) = 0, \\
(n_1^2 - \epsilon')(E_{\xi}^{(1)}e^{ik,l} + E_{\eta}^{(1)}e^{-ik,l}) + (n_2^2 - \epsilon')(E_{\xi}^{(2)}e^{ik,l} + E_{\eta}^{(2)}e^{-ik,l}) + \\
+ (n^2 - \epsilon')(E_{\xi}e^{ikl} + E_{\eta}e^{-ikl}) = 0.
\end{cases}$$
(9)

With the help of Eqs. (8) and (9) the amplitudes of the reflected, transmitted and the inner waves can be calculated from the amplitude of the incident wave. In the case of strong absorption of light the equations for the reflected waves are:

$$R_{\xi} = \frac{1 - n_{1}}{1 + n_{2}} A_{\xi},$$

$$R_{\eta} = \frac{n_{1} + n + n_{1}n' + \epsilon'}{n_{1} + n - n_{1}n - \epsilon'} A_{\eta} - 2 \frac{n_{2}^{2} - \epsilon'}{(1 + n_{2})(n_{1} + n - n_{1}n - \epsilon')} A_{\xi}.$$

$$(10)$$

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Boundary conditions for ...

The amplitude of the reflected left polarized wave depends on the amplitude of the incident right polarized wave. For the incidence of a left polarized wave ($A_{\xi} = 0$) the amplitude of the transmitted wave appearing in vacuum satisfies:

tisfies:

$$D_{\xi} = a \exp\left[-i\left(k_{0} + \frac{\omega}{c}\right)l - k'l\right] + a_{1} \exp\left[-i\left(k_{10} + \frac{\omega}{c}\right)l - k'_{1}l\right],$$

$$D_{\eta} = b \exp\left[-i\left(k_{0} + \frac{\omega}{c}\right)l - k'l\right] + b_{1} \exp\left[-i\left(k_{10} + \frac{\omega}{c}\right)l - k'_{1}l\right].$$

$$a = -\frac{n_{2} + n - n_{2}n - \epsilon'}{n_{1} + n - n_{1}n - \epsilon'}b, \quad a_{1} = \frac{n_{2} + n_{1} - n_{2}n_{1} - \epsilon'}{n_{1} + n - n_{1}n - \epsilon'}b_{1},$$

$$b = -\frac{2(\epsilon' - n_{1}^{2})(n_{2} - n)}{(1 + n_{2})(n_{1} + n - n_{1}n - \epsilon')(n_{1} - n)}A_{\eta},$$

$$b_{1} = \frac{2(\epsilon' - n_{1}^{2})(n_{2} - n_{1})}{(1 + n_{2})(n_{1} + n - n_{1}n - \epsilon')(n_{1} - n)}A_{\eta}.$$
(11)

for the incidence of a right polarized wave $(A_{\eta_1} = 0)$: $D_{\xi} = c \exp \left[-i(k_{10} + \omega/c)1 - k_{1}^{-1}\right] + c_{1} \exp \left[-i(k_{10} + \omega/c)1 - k_{1}^{-1}\right] + c_{2} \exp \left[i(k_{20} - \omega/c)1 - k_{1}^{-1}\right] + c_{2} \exp \left[-i(k_{10} + \omega/c)1 - k_{1}^{-1}\right]$ (13). Card 7/8

"APPROVED FOR RELEASE: 08/31/2001 CIA-

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23108

S/181/61/003/005/013/042 B101/B214

, Boundary conditions for ...

The coefficients c, c_1 , c_2 , d and d_1 are proportional to the amplitude A_{ξ} , and can be expressed by the refractive indices analogously to Eq. (11). The frequency region in which anomalous waves appear is larger in the optically active crystals compared to that in the crystals not optically active. There are 9 Soviet-bloc references.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im.I.I.Mechnikova (Odessa State University imeni I. I. Mechnikov)

SUBMITTED: June 28, 1960 (initially)
December 26, 1960 (after revision)

Card 8/8

The translation symmetry and the ...

S/058/63/000/001/079/120 A160/A101

wave functions which do not appear to be the eigenfunctions of the translation operator.

M. Krivoglaz

[Abstracter's note: Complete translation]

Card 2/2

TSVIRKO, Yu.A.

Theory of circular dichroism in optically active crystals.
Ukr. fiz. zhur. 6 no.4:570-572 Jl-Ag '61. (MIRA 14:9)

1. Odesskiy gosudarstvennyy universitet im. I.I. Machnikova.
(Dichroism) (Crystals—Optical properties)

34424 s/185/61/006/006/001/030 D299/D304

24,3950

Tsvirko, Yu.A.

AUTHOR: TITLE:

Anomalous anisotropy and circular dichroism of optically active crystals in the exciton-absorption region

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961,

725 - 727

According to calculations, the effect of anomalous anisotropy should be considerable in uniaxial, optically-active crystals, whose optical axis is perpendicular to the crystal faces. If however it is taken into consideration that the faces of a real crystal are not ideal planes, (assuming these planes to be composed of step-like portions), then the total amplitudes of reflected- and transmitted 5-waves, depends on the amplitude of the incident 5wave only. The same applies to the η -wave. Hence such a crystal exhibits no anomalous anisotropy. But the non-ideal character of the crystalline planes leads to another effect in the region of exciton absorption, namely circular dichroism. The light absorption is for-

Card 1/3

s/185/61/006/006/001/030 D299/D304

Anomalous anisotropy and ...

mally taken into account by introducing small imaginary terms in the formulas for the refraction indices. In the case of crystals with principal optical axis of fourth order, the ratio of the intensities of &- and \(\eta-\) -waves which passed through the crystal, is:

(1) $\frac{\mathbf{I}_{\underline{\mathbf{g}}}}{\mathbf{I}_{\underline{n}}} = \left| \frac{\mathbf{b}}{\mathbf{a}} \right|^{6} \exp(-4\mu \mathbf{1}),$

where l is the thickness of the plane-parallel crystal plate, μ is related to the imaginary term of the refraction index n; |b/a| < 1, related to the imaginary term of the refraction index h; [b/a] and depends on the frequency of the light. A formula, analogous to (1), holds in the case of a principal optical axis of third- or sixth order. The ratio of the coefficients of absorption of waves with different circular polarization equals 3 or 5 in uniaxial crywith different circular polarization equals) or) in unlaxial crystals. The frequency range in which the crystals exhibit dichroism, is proportional to the width of the exciton zone ΔE (without taking into account lag), being equal to 15 cm⁻¹ for $\Delta E \approx 0.1$ ev. The experiments conducted (by other investigators) with natrium-uranylexperiments crystals, yielded absorption-coefficient ratios which are

Card 2/3

S/185/61/006/006/001/030 D299/D304

Anomalous anisotropy and ...

in qualitative agreement with the above theory. An interpretation of circular dichroism was also proposed by V.M. Agranovich (Ref. 7: FTT, 2, 1197, 1960, UFN, 71, 141, 1960); his assumptions are however not substantiated and hence his explanation of circular dichroism is incorrect. There are 7 Soviet-bloc references.

AGSOCIATION: Odes'kyy derzhuniversytet im. I.I. Mechnykova (Odessa University of State im. I.I. Mechnykov)

2

Card 3/3

24,7000

S/181/62/004/004/002/042 B108/B102

AUTHOR:

Tsvirko, Yu. A.

TITLE:

Excitation of mechanical exciton waves with an electromagnetic wave field on the surface of an optically active crystal

PERIODICAL: Fizika tverdogo tela, v. 4, no. 4, 1962, 846 - 850

TEXT: The propagation of electromagnetic waves through an uniaxial, optically active crystal plate (\mathbb{D}_4^3 symmetry) is considered. The surfaces are assumed to be not monomolecular so that the additional boundary conditions accounting for spatial dispersion also contain mechanical exciton states. The wave function of an exciton state, $\psi = \sum a(t) \chi(x,y,z)$,

is considered a perturbation in the wave function of the crystal interacting with the electromagnetic wave. The amplitudes of the mechanical exciton waves are equal to those of dipole oscillations. These mechanical exciton waves are generated directly by the field of light waves on the crystal surface leading to considerable afterglow even with weak exciton absorption. S. I. Pekar, Academician AS UkrSSR, is thanked for advice.

Card 1/2

Excitation of mechanical exciton ...

S/181/62/004/004/002/042 B108/B102

There are 9 references: 8 Soviet and 1 non-Soviet. The English-language reference reads as follows: Y. Takeuti. Progr. Theor. Phys., 18, 421, 1957.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova (Odessa State University imeni I. I. Mechnikov)

SUBMITTED: October 4, 1961

JA

Card 2/2

L 13354-63 EWT(1)/BDS AFFTC/ASD/ESD-3/SSD LJP(C)

ACCESSION NR: AP3U01264

\$/0181/63/005/006/1496/1510

AUTHOR: Tsv1rko, Yu. A.

57

TITLE: Excitation of mechanical exciton waves by an electromagnetic

field on the surface of an optically active crystal

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1496-1510

TOPIC TAGS: screw axis, degeneracy, boundary condition, exciton, quasimomentum

ABSTRACT: The author studied uniaxial gyrotropic crystals having no screw axis of symmetry. He found that the exciton energy branches of doubly degenerate exciton zones under quasimomentum directed along the principal optic axis of such crystals differ fundamentally from similar branches of crystals having screw axes in the region of large quasimomentum. He investigated the electromagnetic waves in a plane-parallel plate with monomolecular planes perpendicular to the principal optic axis, excited by an external electromagnetic field propagated along this axis. Supplementary boundary conditions have been obtained for electromagnetic conditions. These conditions, in

Cord 1/2

的主义,这种人,我们就是一个人,我们就是我们的人,我们就是这个人,我们就是一个人,我们就是这个人,我们就是这个人,我们就是我们的人,我们就是我们的人,我们就是我们 第一个人,我们就是我们的人,我们就是我们就是我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是

L 13354-63

ACCESSION NR: AP3001264

accord with the structure of the exciton zone, relate long-wave photoexciton waves and exciton waves to large quasimomentum within the first Brillouin zone. The author concludes that the supplementary boundary conditions proposed by V. M. Agranovich and V. L. Ginzburg (JFN, 76, 643; 77, 663, 1962) are not applicable to the gyrotropic crystals examined in this study. In investigating the role of short-wave mechanical excitons in the optics of a crystal plate, he concludes that this factor cannot be neglected in calculations involving the conservation of energy relative to exciton resonance frequencies. Orig. art. has: 1 figure and 16 formulas.

ASSOCIATION: Odesskiy gosudarstvennymy universitet im. I. I. Mechnikova (Odessa State University)

SUBMITTED: 290ct62

DATE ACQ: 01Ju163

ENCL: 00

SUB CODE: 00

NO REF SOV: 022

OTHER: 003

Card 2/2

L 08524-62 ACC NR: AP6034754 AUTHOR: Zakharov, V. P.; Tsvirko, Yu. A.; Chugayev, V. N. 19 ORG: none 13 Recrystallization of thin semiconductor films under the effect TITLE: of a laser beam SOURCE: AN SSSR. Dokaldy, v. 170, no. 5, 1966, 1056-1058 TOPIC TAGS: semiconductor film, amorphous germanium film, germanium film irradiation, laser irradiation, germanium film recrystallization ABSTRACT: Amorphous germanium films 300-1500 A thick produced by vacuum vapqr deposition on glass substrate were removed from substrates. placed on laluminum foil 150-11 thick, and irradiated with laser-beam pulses which had an energy of 1 joule and a duration of 1 msec. The beam spot on germanium film was about 0.01 mm in diameter. The foil (see Fig. 1) was provided with openings b' and c' through which the germanium film could be observed with an electron microscope. The laser beam burned hole at in the film and foil. In openings located at a distance of up to 2 mm from a', the germanium film disintegrated completely. However, in openings located at a distance of 2—4 mm (specimen in air) or 2—8 mm (specimen in a vacuum of 0.1 mm Hg) from a' 539.216.22:621.315.592

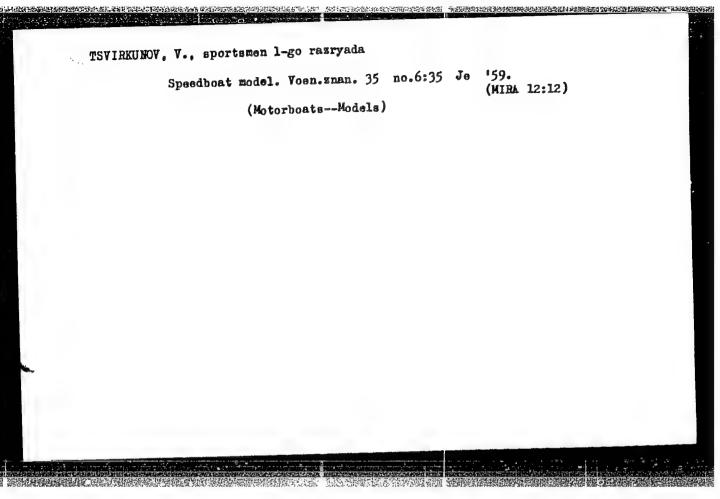
0 L 08524-67 Fig. 1. Laser beam on germanium films ACC NR: AP6034754 a' - Laser burned hole; b' and c' openings; d - germanium film; e - aluminum foil; f - laser beam. a recrystallization of germanium took place. The disintegration and recrystallization took place only in the portion of film facing the openings. No structural changes were observed in the portions adjacent to hole a'. No recrystallization was observed when thin 300 A films were used. Since the lattice heat conductivity of germanium is insufficient to carry within 1 msec an amount of heat which would produce a recrystallization, the phenomenon is presumed to be caused by recombination emission, which also explains why thin films are less affected than the heavy ones. Orig. art. has: 2 figures. 12Jan66/ ATD PRESS: 5103 SUBM DATE: SUB CODE: 20, 11/ LS 2/2

TSVIS, Yu. B.

"The Study of the Process of the Grinding of Cylindrical Teeth."

dissertation defended for the degree of Doctor of Technical Sciences at the Inst. of Machine Science.

Defense of Dissertation (Jan-Jul 1957) Sect. of Tech. Sci. Vest. AN SSSR, 1957, v. 27, No. 12, pp. 100-122



TSVIS, Yu. V. Doc Tech Sci -- (diss) "Study of the process of gear sharpening of cylindrical gear wheels." Mos, 1956. 29 pp 20 cm. (Acad Sci USSR. Inst of Machine Studies. All-Union Sci-Res Instrument Inst VNII of the Min of Machine Tool Building and Instrument Industry), 120 copies (KL, 7-57,106)

30

KORYTNYY, David Markovich; TSVIS, Yu.V., doktor tekhn.nauk, retsenzent; ZEVAKIN, F.N., inzh., red.; BALANDIN, A.F., red.izd-ve; SMIRHOVA, G.V., tekhn.red.

[Gear-cutting tools] Emboresnyi instrument. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.

(Gear-cutting machines)

THE STATE OF THE PROPERTY OF THE STATE OF TH

PETHUKHIN, Sergey Semenovich, dotsent, kand.tekhn.nauk; TSVIS, Yu.V., doktor tekhn.nauk, retsenzent; IVANOVA, N.A., red.izd-ve; EL'KIND, V.D., tekhn.red.

[Fundamentals of designing the cutting edge of metal-cutting tools; kinematic theory] Osnovy proektirovaniia rezhushchei chasti metallorezhushchikh instrumentov; kinematicheskaia teoriia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.

lit-ry, 1960. 162 p. (MIRA 13:11)

(Metal-cutting tools)

A CONTROL OF THE PROPERTY OF T

TSVIS, Yuriv Vladimirovich, doktor tekhn. nauk; ROMANOV, N.F., kand. tekhn. nauk, retsenzent; MOROZOVA, M.N., inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Profiling generating hobs] Profilirovanie rezhushchego obkatnogo instrumenta. Moskva, Mashgiz, 1961. 155 p. (MIRA 15:1) (Metal-cutting tools)

TSVISS, Yu. V.

Cand. Tech. Sci.

Dissertation:

"Investigation of the Process of Turning by the Rolling Method."

25 May 49

Moscow Machine Tool Inst

imeni I. V. Stalin

SO Vecheryaya Moskva Sum 71

- 1. TSVISS, YU. V.; Gudkov, V. A.
- 2. USSR (600)
- 7. High-Speed Gear Cutting, Machine Tools and Instruments No. 1, Jan 1953

9. Compilation of Information of the USSR Machine and Machine Tools Industry Contained in Soviet Publications. AFIC.

BERGER, G.S.; BULATOVA, Ye.V.; GRUZDEVA, R.Ye.; TSVIT, M.M.

Additional concentration of tantalite by flotation. TSvet.met.
34 no.10:25-27 0 '61. (MIRA 14:10)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya. (Tantalite) (Flotation)

TSVIT, M.M., otv.red.; CHASOVIKOVA, Z.I., tekhn.red.

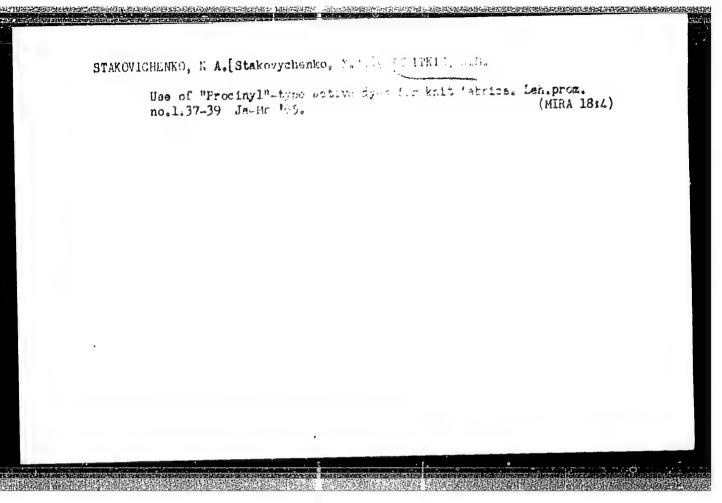
[Leaders of nonferrous metal production in Kazakhstan] Peredoviki Proizvodstva tsvetnoi metallurgii Kazakhstana. Izd.2., ispr.
Alma-Ata, 1969. 28 p. (MIRA 13:6)

1. Alma-Ata, TSentral'nyy institut nauchno-tekhnicheskoy informatali. (Kezakhstan--Nonferrous metals)

STAKOVICHMIKO, N.O. [Stakovychenko, N.O.]; TSVITKIS, R.S.

Dyeing of warp-knit viscose fabrics with vat dyes by the semi-suspensi n method in apparatus with intermittent action.

Leh. prom. no.4:25-27 O-D '64 (MIRA 18:1)



TSVITSINSKIY, I. V., Cand. Tech. Sci. (diss) "Projected Transformation of Second-Order Surfaces and its Use in Descriptive Geometry," Kiev, 1961, 11 pp. (Kiev Civil Eng. Inst.) 175 copies (KL Supp 12-61, 276).

TSVIYAK, P.B.

PHASE I BOOK EXPLOITATION

SOV/4201

L'vov. Politekhnicheskiy institut

Mekhanika (Mechanics) L'vov, 1959. 69 p. (Series: Its: Doklady, tom 3, vyp. 1/2) 900 copies printed.

Editorial Board: A.I. Andriyevskiy, Doctor of Technical Sciences, Professor; Ya.P.Berkman, Honored Scientist and Technologist UkrSSR, Doctor of Chemistry, Professor; K.B. Karandeyev, Corresponding Member, Academy of Sciences USSR and Academy of Sciences UkrSSR, Doctor of Technical Sciences, Professor; M.S. Komarov (Resp. Ed.), Doctor of Technical Sciences, Professor; V.I. Kuznetsov, Doctor of Geology and Mineralogy; B.F. Levitskiy (Deputy Resp. Ed.), Candidate of Technical Sciences, Docent; V.B. Porfir'yev, Member, Academy of Sciences UKrSSR. Doctor of Geology and Mineralogy, Professor; V.A. Tikhonov (Resp. Secretary), Candidate of Technical Sciences, Docent; Tech. Ed.: T. Veselovskiy.

PURPOSE: This booklet is intended for scientific workers and engineers.

COVERAGE: The booklet contains 12 articles on vibrations, impact stresses, transmission and slider-crank mechanisms, fluid mechanics, and strength of reinforced-concrete beams. No personalities are mentioned. References follow several of the articles.

Card 1/3

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chanics	
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Lushchenko I.P. Natural Vibrations of Single-Mass Systems With Nonsylves Characteristics	metrical 3
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Sviyak, P.B. Plotting of a Diagram of Accelerations of a Space Slide Trank Mechanism by Methods of Descriptive Geometry	er- 35
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Bazilevich, A.I. Reservoirs for Protecting Bottom Lands From Flooding Klimenko, F.Ye. Taking Into Account the Action of a Transverse Force on the Carrying Capacity of the Cross Section of a Beam in Bending Klimenko, F. Ye. Investigating the Work of Reinforced-Concrete Cantilev Variable-Section Elements in the Vicinity of the Maximum Moment During Bending Gradyuk, I.I. Carrying Capacity of Prestressed Reinforced-Concrete Elements in Bending AVAILABLE: Library of Congress	
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	65
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Card 3/3	
<i>9.</i>	/gmp 2-60

	TSVIYAK, P.B.					
		Investigating a three-dimensional crankgear. no.1/2:18-24 '59. (Granks and crankshafts)	Dok1.LPI 3 (MIRA 13:6)			
		The second secon				
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TSVIYAK, P.B.

Using descriptive geometry methods in plotting an acceleration scheme for crankgears. Dokl. IPI 3 no.1/2:25-30 59. (MIRA 13:6)

(Mechanical movements)

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Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 18 (USSR)

AUTHOR:

Tsviyak, P. B.

TITLE:

Contribution to the Subject of the Graphoanalytical Investigation of Spatial (Three-dimensional) Mechanisms of the First Group With Lower Pairs (K voprosu ob issledovanii i proyektirovanii prostranstvennykh mekhanizmov pervoy gruppy s nizshimi parami grafoanali-

ticheskim metodom)

PERIODICAL: Tr. In-ta mashinoved. AN SSSR. Seminar po teorii machin i mekhanizmov, 1956, Vol 16, Nr 62, pp 26-42

ABSTRACT:

A description of several graphical and analytical methods of analysis of spatial hinge-jointed four-bar linkages (in particular, a slide-crank mechanism).

V. N. Geminov

Card 1/1

TSVIYAK, P.B.

Graphognalytic method for investigating and designing three-dimensional first group mechanisms with lower pairs. Trudy Sem. po teor. mash. 16 no.62:26-42 '56. (MLRA 9:10)

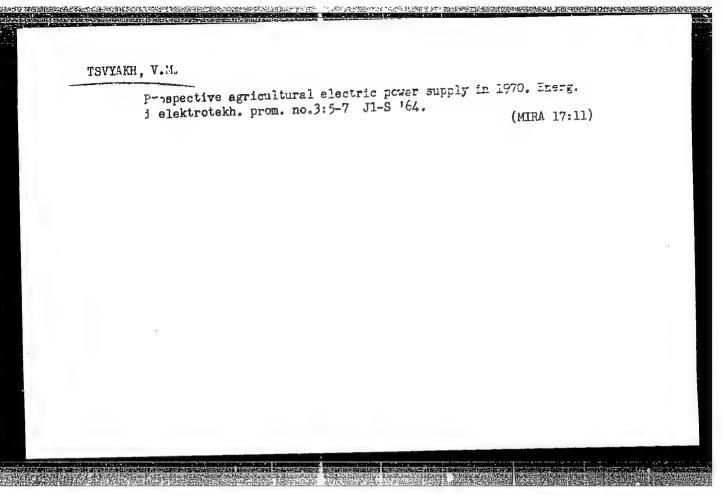
(Machinery--Design)

TSVIZHBA, Yu.D., inzh.

Handles for vibropercussive instruments. Stroi. i dor.

mash. 9 no.6:23 Je '64.

(MIRA 18:11)



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BARSUKOV, N.A., inzh.: TSVYATKO, A.V., inzh.

Machine for flanging conical bottoms of reservoirs. Suggested by N.A. Barsukov, A.V. TSviatko. Rats. i izobr. predl. v stroi. no.15:24-25 '60'. (MIRA 13:9)

1. Nikolayevskiy zavod metallokonstruktsiy. (Reservoirs)

大のだ/3727 アンレデガブドロ

BULGARIA/Chemical Technology. Chemical Products and Their K-5

Applications. Cellulose and Cellulose Products.

Paper.

Abs Jour: Ref Zhur-Khimiya, 1958, No 1, 3268.

Author : Khristov Tsvyatko

Inst Title

: Tobacco and Cotton Stems as Raw Materials for the Paper

and Pulp Industries.

Orig Pub: Tezhka promishlenost, 1956, 5, No 4, 31-38.

Abstract: The feasibility of using tobacco and cotton stems for the

production of sulfite pulp is considered. 34.27 to 35.21% of pulp (expressed as a percent of the oven-dry raw material) is obtained from tobacco stems; 28.98% is obtained from cotton stems. Tobacco stems may yield 65-75% of hemicellulose. The physical and mechanical properties of

Card : 1/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310003-4

L 17023-63 EWT(m)/BDS EWT(1)/EWP(q)/

\$/185/63/008/004/008/015

AFFTC/ASD JD

Tsvyetkov, V. P. and Kravtsova, N. F.

AUTHOR: TITLE:

Some questions in the study of electron distribution within atoms

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 4, April 1963, 469-478

The authors study the scattering of copper atoms by the ionization method, and use the experimental data from this study to construct the radial distribution curve for electrons Cu and Ni atoms. They consider the possibility of applying an approximation method for plosting radial distribution curves to be used for determining the number of electrons which are weakly bound with the nucleus in solid bodies. Such a method would exhibit a relative error of 15 - 20% which, in the case of solid bodies, would be sufficient to allow gathering of additional information on the spatial distribution of electrons in atoms. It would also be useful in the study of the physical properties of electrons and the nature of the chemical bond.

ASSOCIATION: Girnychometalurgiyniy instytut (Mining and Metallurgical Institute

.Komunarsk)

SURMITTED: June 1, 1962

Card 1/1:

RODIONOV, N.S., inzh.; SHMUKLER, M.M.; TSVYLEV, I.S.

For a better utilization of the production capacities of peat briquet plant. Torf.prom. 27 no.6:16-19 '60.

(MIRA 13:9)

1. Gipromestprom Gosplana RSFSR. (Peat industry)

VAVULO. V.A., inzh.; RUSAKOV, V.V., inzh; TSVYLEV, I.S., inzh.; CHURAYEV, S.P., inzh.

Peat cutting machines. Mekh.i avtom.proizv. 14 no.9:34-36 (MIRA 13:9)

S '60. (Peat machinery)

THE CONTRACTOR OF THE CONTRACT

TSVEEV, K. D.

Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

PUZANOV, N.P.; MEL'NIKOV, L.V.; PAUL', G.P.; CHERKASSKIY, A.S.; TSVYLEV,
A.S.; YAKOBSON, A., redaktor; MUNTYAN, T., tekhnicheskiy redaktor.

[Gourse for radiotelegraph operators] Kurs radiotelegrafista.

Moskva, Izd-vo DOSAAF, 1954, 335 p. [Microfilm] (MLRA 7:11)

(Telegraph, Wireless)

LYALIN, P.M., inzh.; TSVYLEV, I.S., inzh.

Work of the State Institute for the Design and Planning of Fuel Industry on the mechanization of peat enterprises. Torf. prom. 36 no.5:29-31 '59. (MIRA 13:1)

1.Gosudarstvennyy institut po proyektirovaniyu predpriyatiy toplivnoy promyshlennosti Gosplana RSVSR.

(Peat machinery)

IVANOV, Ye.Ya.; TSYYLEY, I.S.

New techniques used in winning peat. Biul.tekh.-ekon.inform. no.2:7-8
(MIRA 11:4)

(Peat industry)

TSVYLEV, N.A., dotsent, kand.tekhn.nauk

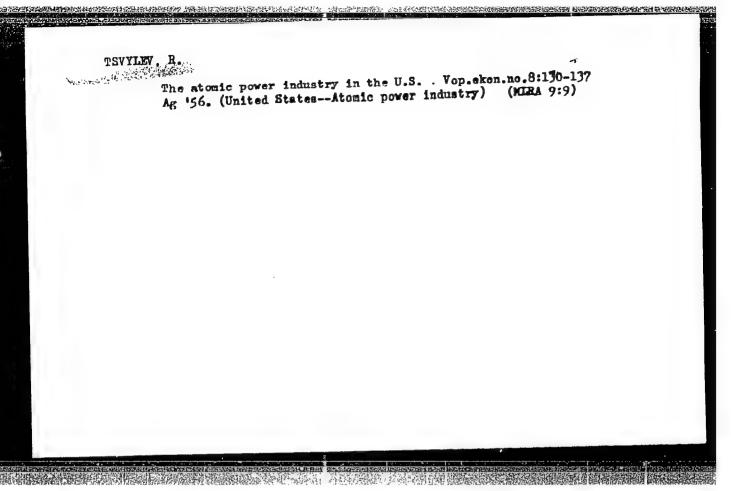
Problem of rock deformations during working operations. Trudy
NPI 49:127-134 *59. (MIRA 14:3)

TSVYLEV. N.A., dotsent, kandidat tekhnicheskikh nauk.

Establishirg limits for open-pit workings in mining wide steeply dipping mineral deposits. Nauch. trudy NPI 32: 3-18 '55.

(MLRA 10:2)

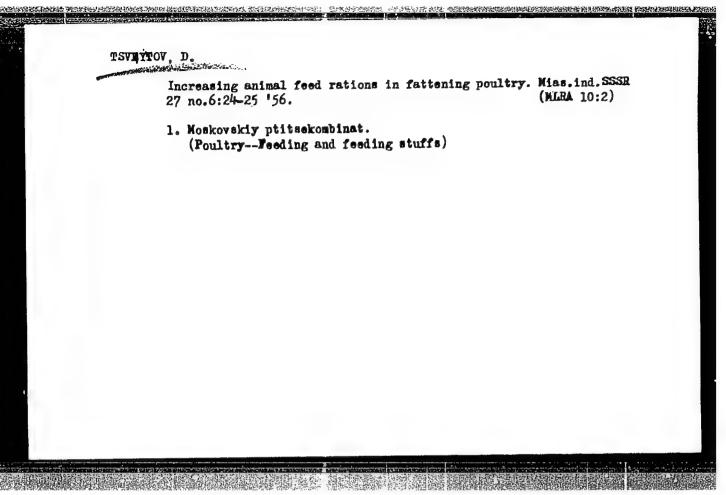
(Strip mining)

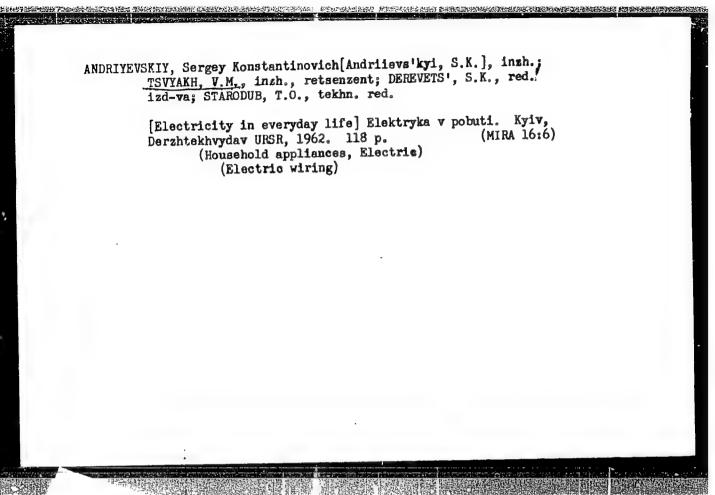


TRIBUKH, S.L.; NAZAKEVICH, M.A.; TSVYLEVA, Ye.A.

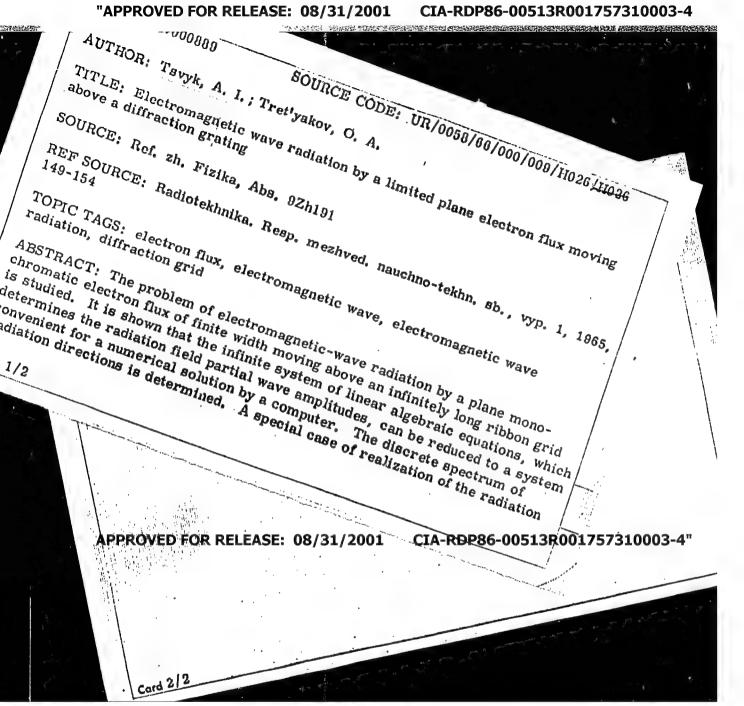
Prevention of intoxication in the production of parathion. Gig.i san.no.4:16-19 Ap 154. (MLRA 7:4)

1. Is Instituta gigiyeny truda i professional'nykh sabolevaniy Akademii meditsinskikh nauk SSSR. (Parathion) (Industrial hygiene)





"APPROVED FOR RELEASE: 08/31/2001



LOPYREV, Aleksandr Alekseyevich; TSVTTOV, Ivan Ignat'yevich, BELOSTOTSKII,
I.A., redaktor; OTOCHEVA, M.A., redaktor; KOMASHINA, A., tekhnicheakiy redaktor.

[Manual for trolley car operators] Uchebnoe posobie dlia voditelei
tramvaia. Moskva, Isd-vo Ministerstva kommunal'nogo khosiaistva
RSFSR, 1955.267 p.

(Street reilways)

(Street reilways)

Selov'YEV, S.N.: TSYAKALO, A.G.

Contrainer for feeding electrode rods into the bunker of an electrode-coating press. Sbor.rats.predl.vnedr.v proizv. no.5:40 electrode-coating press. Shor.rats.predl.vnedr.v proizv. (MIRA 14:8)

160.

1. Zavod "Krasnyy Profintern". (Feed mechanisms)

AUTHOR: Tayankin, D. Ya. SCV/20-120-5-41.67

TITLE: X-Ray Diffraction of Domains Consisting of Long Molecules

(Rentgenovskaya difraktsiya na oblastyakh, sostoyashchikh

iz dlinnykh molekul)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 5, pp. 1076-1079

(USSR)

ABSTRACT: This is a computation of the X-ray diffraction in an aggregate

of domains forming an axial texture. The domains are similar to each other and consist of long molecules with axes parallel to the axis of the texture. The following cases were investigated: I. Within each domain a complete three-dimensional order prevails. The axes of the chains form a regular pattern. II. The free rotation and a displacement of the chains

governed by certain rules, when the

chains are free to rotate around their axes, the displacement along the axis is, however, still governed by rules. III. Free rotation and an arbitrary displacement. First the general case is investigated under the assumption that all chains in

the domain con be divided into two groups of chains which

Card 1/3 are identical in translations. The course taken by the compli-

504/20-120-5-41/67

K-Ray Diffraction of Domains Consisting of Long Molecules

cated calculations is outlined. The principal result of the free rotation is the limitation of the diffraction field. The oscillations of the chains within a certain angular domain about the axis of the texture limit the diffraction field. The calculations according to the formulae deduced in this paper require a knowledge of the distances between the chains and the atoms. If these quantities are knwon it is possible to determine the degree of order in the individual domains of the polymer by comparing the results of the calculations with those of the experiments. This problem will be studied in a later work. This paper was compiled under the supervision of A. I. Kitaygorodskiy. There are 3 references, 3 of which are Soviet.

are Soviet.

PRESENTED: January 8, 1958, by V.A. Kargin, Member, Academy of Sciences,

USSR

SUBMITTED: January 6, 1958

Card 2/3

X-Ray Diffracti	on of Domains Co	onsisting of Long	SO7/2 Molecules	o-18o-5-11 Eg
1. PolymersMole	ecular structure	2. X-ray diffra	ction analysis-	-Performance
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	1. PolymersMole	1. PolymersMolecular structure	1. PolymersMolecular structure 2. X-ray diffrac	X-Kay Diffraction of Domains Consisting of Long Molecules 1. PolymersMolecular structure 2. X-ray diffraction analysis-

s/185/62/007/012/016/021 D234/D308

AUTHORS:

Kravtsova, N.F. and Tsvyetkov, V.P.

TITLE:

Experimental investigation of the atomic

scattering curve of Ni

PERIODICAL:

Ukrayins!kyy fizychnyy zhurnal, v. 7,

no. 12, 1962, 1355 - 1360

TEXT: The atomic scattering curves of Ni and NiO powders were determined, taking the (220) reflection line of NaCl for comparison. The results were corrected for dispersion and temperature. For $(\sin \theta)/\lambda > 0.4$ the f-curves coincide with those calculated by Hartree-Fock method. For smaller angles the Thomas-Fermi method is applicable. Deviation of the experimental curves from those obtained by the Hartree-Fock method with small angles can be explained by insufficient accounting for the exchange of outer electrons in heavy atoms, or by special properties of the 3d shells. The number of electrons in the latter is determined using the f_0 values obtained by Watson and Freeman, and the result

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S/165/62/007/012/016/021
Experimental investigation ... D234/D308
is 6.9 ± 0.2 (Ni) and 6.7 ± 0.3 (Ni⁺⁺ in NiO). There are 2 figures.

ASSOCIATION: Komunars'kyy hirnychometalurhiynyy instytut (Komunarsk Institute of Mining and Metallurgy)

SUEMITTED: May 31, 1962